



THE WATER INSTITUTE OF THE GULF

Justin Ehrenwerth
President and CEO



THE WATER INSTITUTE
OF THE GULF®



- The Water Institute of the Gulf is a **not-for-profit, independent** research and technical services resource with a mission to help communities around the world thoughtfully prepare for the future through water management strategies.
- Through an **integrated and inter-disciplinary** approach, the Institute's work helps create more resilient communities, thriving economies, and a healthy environment.

ABOUT US





WHAT WE DO



SUITE OF SERVICES

Applied Research

- Field Investigations
- Monitoring and real-time sensor data collection
- Integrated natural systems modeling
- Analytics and integrated decision support
- Societal and ecosystem impact studies
- Water resources management analyses

Technical Support

- Independent technical peer review
- Expert opinion and advisement
- Expert panel development and coordination



AN INTEGRATED APPROACH TO SOLVING THE CHALLENGES OF COASTAL LOUISIANA AND THE MISSISSIPPI RIVER DELTA



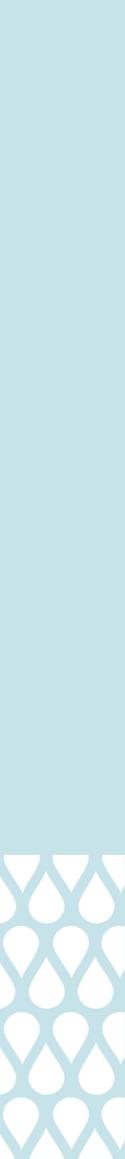
LINKING KNOWLEDGE TO ACTION: THE INSTITUTE'S ROLE IN LOUISIANA COASTAL PROTECTION AND RESTORATION



PROJECT EXAMPLES

- Coastal Master Plan Modeling/Support
- Mississippi River and Sediment Observation and Modeling
- Sediment Diversion Project Planning
- Coastal Monitoring Framework
- Louisiana Coastal Atlas
- Water Resource Assessment





PROJECTS IN LOUISIANA AND BEYOND



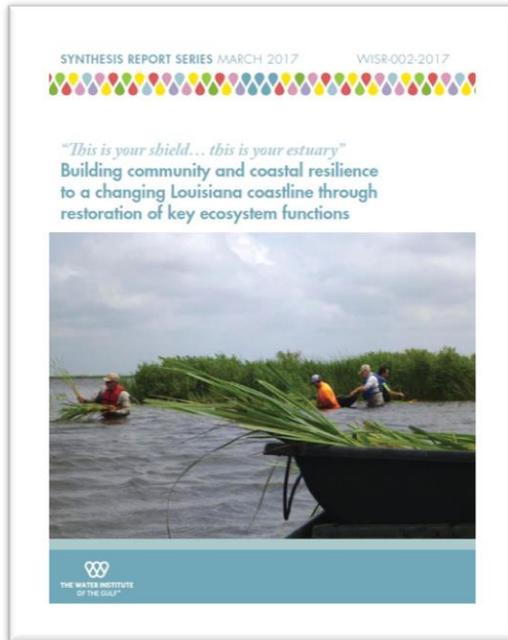
WORK IN LOUISIANA



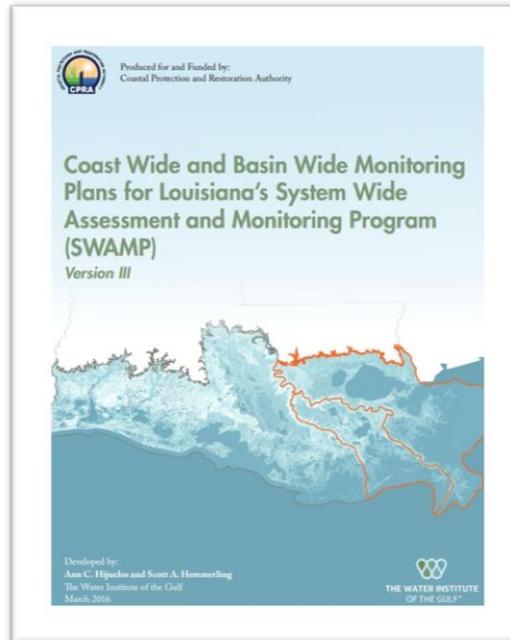
In the field or working with communities, we provide the science to address issues and propose solutions.



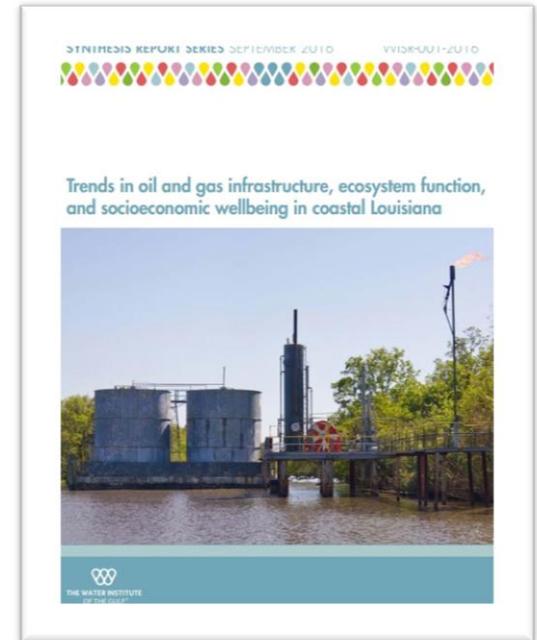
PROJECT EXAMPLES



Compiled scientific and community perspectives on coastal challenges to better guide planning and restoration action



Developed a multi-layer monitoring program to inform adaptive management of coastal restoration and protection activities



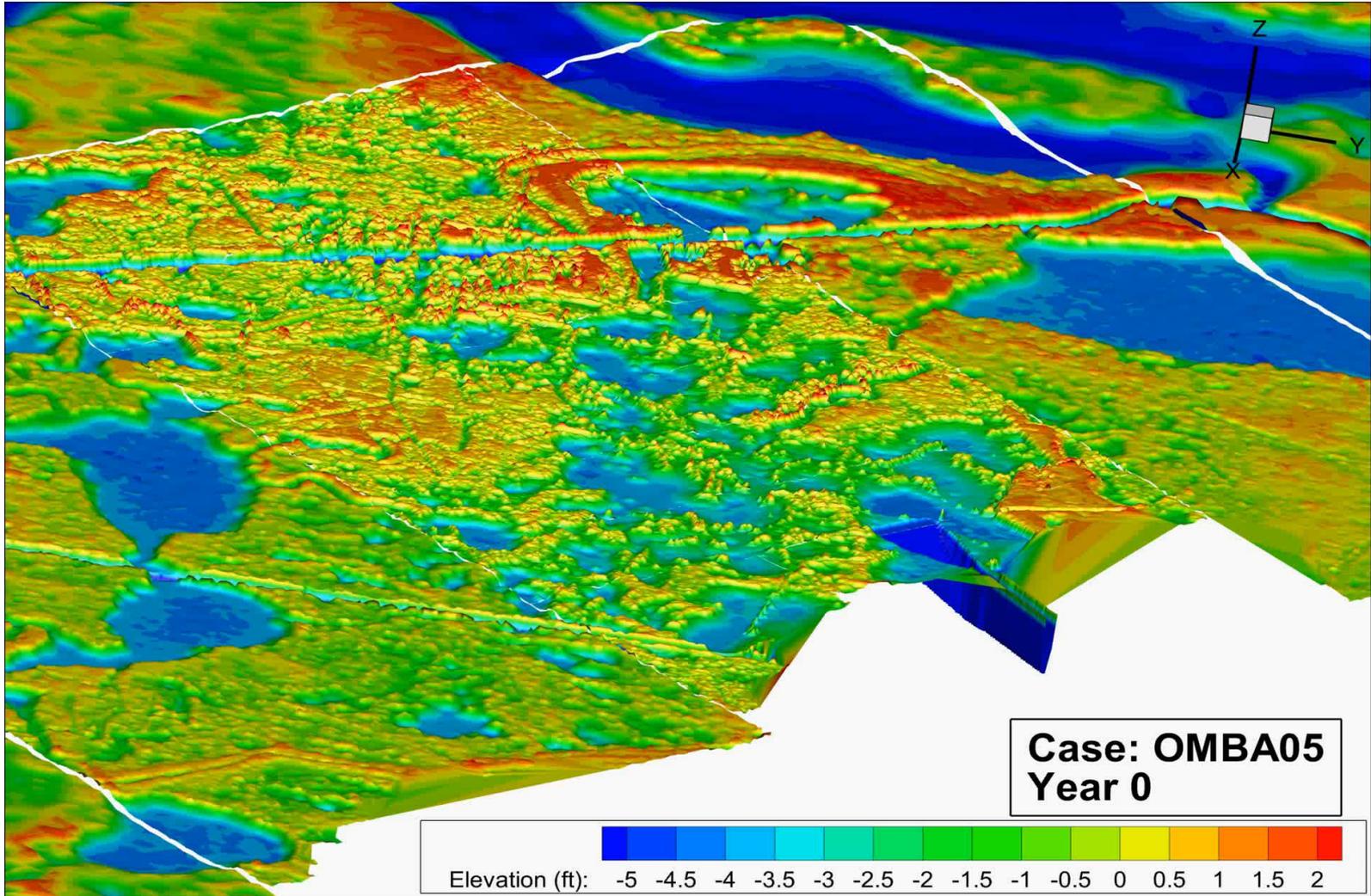
Examined historical changes in infrastructure density, ecosystems, and community well-being to inform future planning



MID-BARATARIA DIVERSION



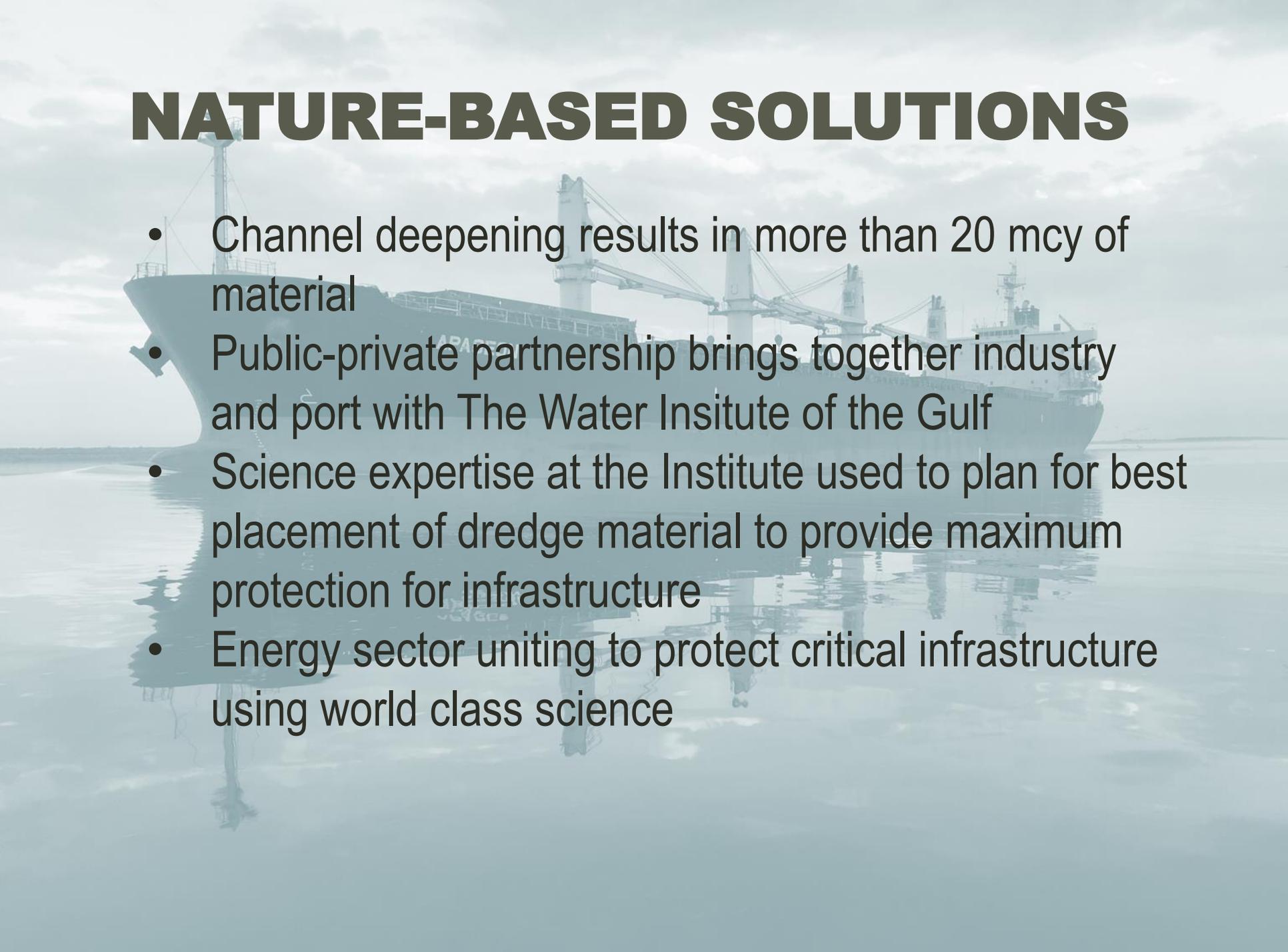
MODEL PROJECTIONS



FORECASTED FLOOD EVENT IN URBAN ENVIRONMENTS

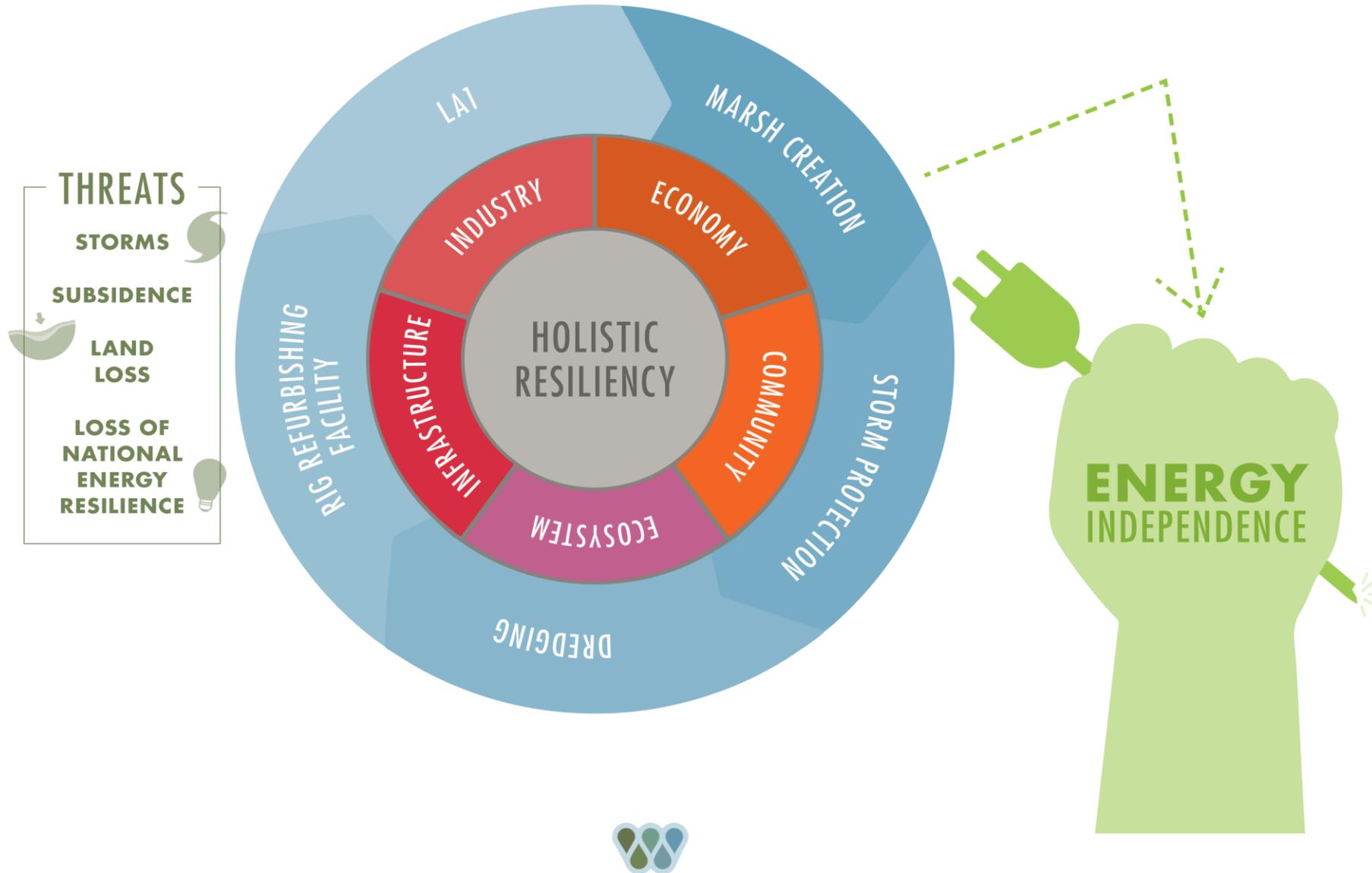


NATURE-BASED SOLUTIONS



- Channel deepening results in more than 20 mcy of material
- Public-private partnership brings together industry and port with The Water Institute of the Gulf
- Science expertise at the Institute used to plan for best placement of dredge material to provide maximum protection for infrastructure
- Energy sector uniting to protect critical infrastructure using world class science

HOLISTIC RESILIENCY



BEYOND LOUISIANA



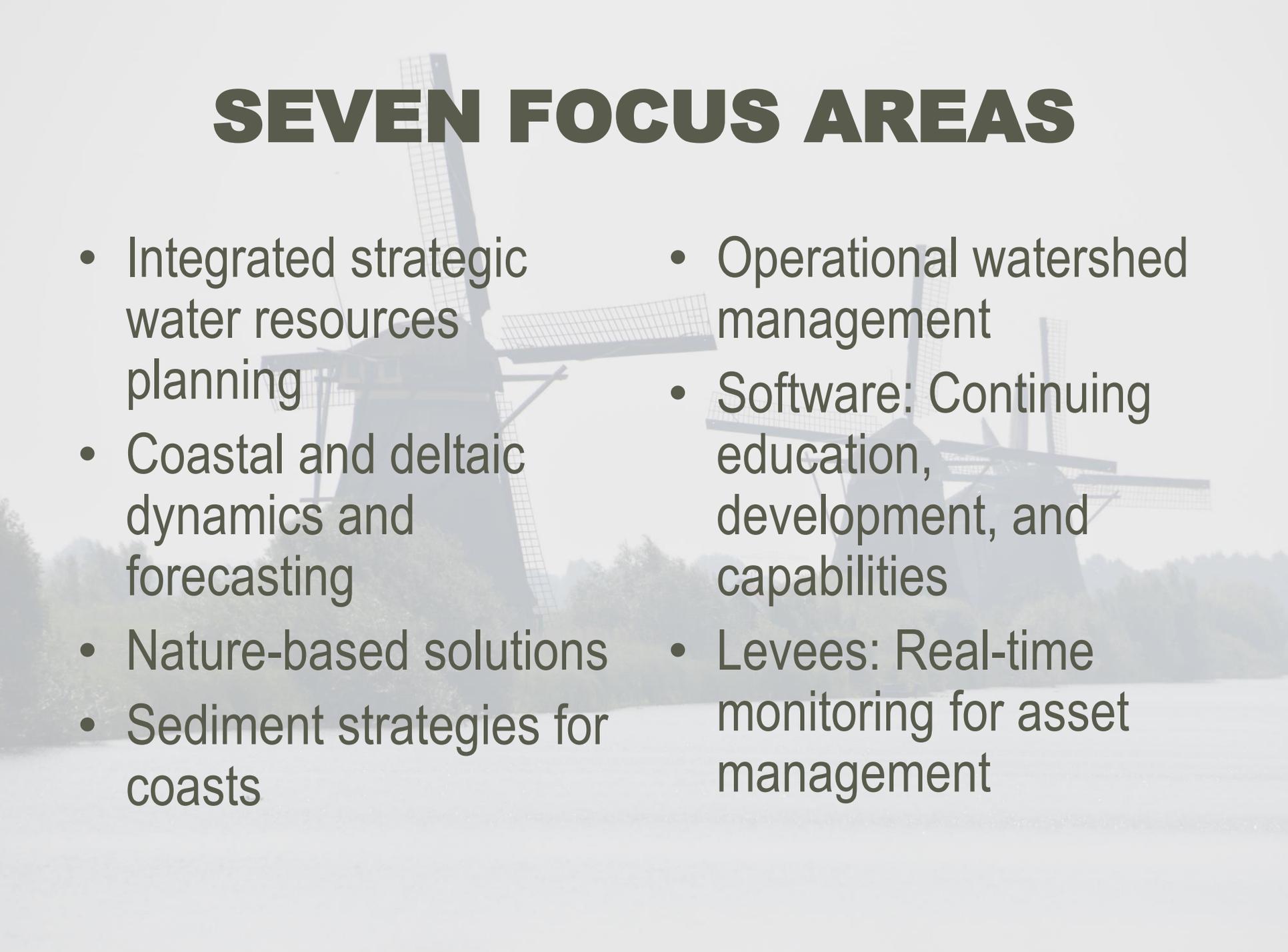
From partnerships with the Secretariat of the Pacific Regional Environment Programme working in Fiji to contracts with the Office of Naval Research in the Mekong Delta, the Institute is taking Louisiana knowledge beyond our borders



DELTARES MOU SIGNING



SEVEN FOCUS AREAS

The background of the slide features a faded, artistic image of several traditional Dutch windmills situated along a body of water, likely a canal or a lake. The windmills are dark in color with light-colored sails, and the overall scene is misty or overcast, creating a soft, atmospheric background for the text.

- Integrated strategic water resources planning
- Coastal and deltaic dynamics and forecasting
- Nature-based solutions
- Sediment strategies for coasts
- Operational watershed management
- Software: Continuing education, development, and capabilities
- Levees: Real-time monitoring for asset management

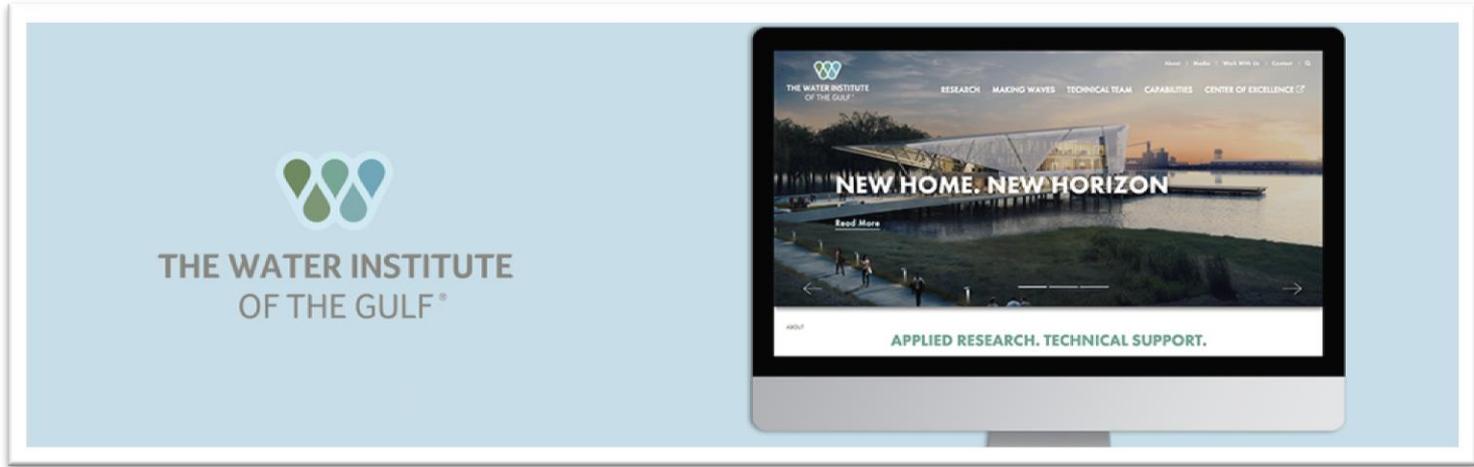
MEKONG RIVER DELTA



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MORE INFORMATION



THEWATERINSTITUTE.ORG





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THANK YOU

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